

Fig. 2: Syndecan-1 (rat) extracellular domain: M81785

```
atgagac gtgcggcgct
ctggcttttg ctctgcgcgc tggcgctgcg cctgcagcct gccctcccgc aaattgtcac
cgcaaattgtg cctcctgaag accaagatgg ctctggggac gactcagaca actctcttgg
ctcaggcaca ggtgcttttg cagatatgac tttgtcacgg cagacacctt ccacttggaa
ggatgtgttg ctctgacag ctacaccac agctccagaa cccaccagca gggatacaga
ggccaccctc acctctatcc tgccggctgg agagaagcct gaggaggagg agcccgtggc
ccacgtggaa gcagagcctg acttcactgc tccgggacaag gagaaggagg ccaccaccag
gcctagggag accacacagc tcccagtcac ccaacaggcc tcaacagcag ccagagccac
cacggcccag gcatctgtca cgtctcatcc ccacggggat gtgcaacctg gcctccacga
gaccttggct cccacagcac ccggccaacc tgaccatcag cctccaagtg tggaggatgg
aggcacttct gtcataaaag aggttgtgga ggatgaaact accaatcagc ttcctgcagg
agagggctct ggagaacaag acttcacctt tgaacatct ggggagaaca cagctgtggc
tggcgctcag cctgacctc ggaatcagtc cccagtggat gaaggagcca caggtgcttc
tcagggcctt ttggacagga aggaa [SEQ ID NO:1]
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ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621):

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ggcaggaggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg
gagggcgggc gcgggaggag gagggggcga gccgcggagc cagtggcccc gcttggacgc
gctgctctcc agataccccc ggagctccag ccgcgcggat cgcgcgctcc cgccgctctg
cccctaaact tctgccgtag ctccctttca agccagcgaa tttattcctt aaaaccagaa
actgaacctc ggcacgggaa aggagtccgc ggaggagcaa aaccacagca gagcaagaag
agcttcagag agcagccttc ccggagcacc aactccgtgt cgggagtgcg gaaaccaaca
agtgagaggg cgccgcgttc ccggggcgca gctgcggggc gcgggagcag ggcagaggag
aggaagcgag cgcccccgag ccccgagccc gagtccccga gcoctgagccg caatcgctgc
ggtactctgc tccggattcg tgtgcgcggg ctgcgcgagc gctgggcagg aggcttcggt
ttgccctggt tgcaagcagc ggctgggagc agccgggtccc tggggaatat gcggcgcgcg
tggtatcctgc tcaccttggg cttggtggcc tgcgtgtcgg cggagtcgag agcagagctg
acatctgata aagacatgta ccttgacaac agctccattg aagaagcttc aggagtgtat
cctattgatg acgatgacta cgcttctgcg tctggctcgg gagctgatga ggatgtagag
agtccagagc tgacaacaac tcgaccactt ccaaagatac tgttgactag tgctgctcca
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtcacct
gaagaaactg ataaagagaa agttcacctc tctgactcag aaaggaaaat ggaccagcc
gaagaggata caaatgtgta tactgagaaa cactcagaca gtctgtttta acggacagaa
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SEQ ID NO:2

protein sequence:

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GRREGARGKEEEEKEEDPGREARRGRRRGAAAEPVAPLGRAALQ
IPPELQPRGSRAPAALPLNFCRSSLSQRIYSLKPETEPRHGKGVGGAKPQSKKSF
REQPSRSTNSVSGVQKPTSERAPRSRGAAAGGSRRRRRKRAPPSPEPESPSLSRNRC
GTLRLRVRGLAERWAGGFVLPWLQAAAGSSRSLGNMRRRAWILLTLGLVACVSAESRA
ELTSDKDMYLDNSSIEASGVYPIDDDYASASGSGADEDVESPELTTRPLPKILLT
SAAPKVETTLNIONKIPAOTKSPETDKEKVHLSDSERKMDPAEEDTNVYTEKHSDS
LFK RTE
```

SEQ ID NO:3

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen, P., Zhang, J., Cassiman, J.J., Van den Berghe, H. and David, G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 4: Synd-3 (N-Syndecan) extracellular domain

gccccgcgcgctgctgagccgtccttgccggcacgssgatgccccgcggagctgcggcgcc
tcgcggtgctgctgctgctgctcagcgccccgcgcagcgctggctcagccgtggcgcaatg
agaactacgagaggccggtggacctggagggctctggggatgatgatccctttggggacg
atgaactggatgacatctactcgggctccggctcaggctattttgagcaggagtcagggt
tggagacagcggtcagcctcaccacggacacgtccgtcccactgcccaccacgggtggcgg
tgctgcctgtcaccttggtgcagcccatggcaaacacctttgagctgttccccacagagg
acacgtcccctgagcaaacaccagcgtcttgtatatccccaagataacagaagcaccag
tgatccccagctggaaaacaaccaccgccagtaccactgccagtgactccccagtagcca
cctccaccaccaccaccacggctgctaccaccaccacaaccaccaccaccatcagcacca
ctgtggccacctccaagcccaccactaccagagggttcttgccccctttgtcaccaagg
cagccaccaccgggcccaccaccctggagacgcccaccacctccatccctgaaaccagtg
tcctgacagagggtgaccacatcacggcttgtcccctccagcacagccaagccgagggtccc
tgccaaaaccaagcacttccaggactgcagaacccacggaaaaaagcactgccttgctt
ccagccccaccacgctgccaccacagaagccccccagggtggagccaggggagttgacga
cagtcctcgacagtgacctggaagtcccaaccagtagtggtcccccagcggggacttcgaga
tcaggaggaggaggagacaactcgtcctgagctgggcaatgaggtggtggcagtggtga
caccaccagcagcaccggggctgggcaagaatgcagagccggggctcatcgacaacacaa
tagagtcgggcagctcggctgctcagctccccagaaaaacatcctggagaggaaggaa

SEQ ID NO:4

Reference:

ACCESSION M84910
LOCUS CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE Syndecan 3: a member of the syndecan family of
membrane-intercalated proteoglycans that is expressed in high
amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Fig. 5: Syndecan-4 extra-cellular domain from rat: M81786

atggc gcctgtctgc ctgtttgcgc cgtctgtctg gttgtctctc
ggagggtttcc ccgtcgcccc aggcgagtcg attcgagaga ctgagggtcat agacccccag
gacctcctgg aaggcagata cttctctgga gccctcccgg acgatgaaga cgtctgggggc
cttgagcagg actctgactt tgagctgtcg ggttcgggag atctagatga cacggaggag
cccaggacct tcctgaggt gatttcaccc ttggtgccac tagataacca catccccgag
aatgcccagc ctggcatccg tgtcccctca gagcccaagg aactggaaga gaatgaggtc
attcccaaaa ggggtcccctc cgacgtgggg gatgacgatg tgtccaacaa agtgtccatg
tccagcactt cccagggcag caacattttt gaaagaactg ag [SEQ ID NO: 5]

Reference:

ACCESSION M81786
LOCUS RARYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima, T., Shworak, N.W. and Rosenberg, R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag
ctccggggccc gaggctggtg gctgctgtgc gcggccggccg cgctagtcgc ctgcgcccgc
ggggaccccg ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggctttagcc tgagcgacgt gccccaggca gagatctcgg gagagcacct gcggatctgc
ccccagggt acacctgctg caccagttag atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgcact ccacgacagc agccgtgccc tgcaggctac actggccacc
cagctgcatg gcatcgatga ccacttccag cgctgctga atgactcgga gcgtacactg
caggatgctt ttcccggggc ctttggggac ctgtacacgc agaacactcg ggcttccgg
gacctgtatg ctgagctgcg tctctactac cgaggggcca acctacacct tgaggagaca
ctggccgagt tctgggcacg gctgctggag cgtctcttca agcagctgca cccccagctt
ctgctgcccg atgactatct ggactgcctg ggcaagcagg cagaggcact gcggccggtt
ggggatgccc ctcgagaact gcgcctgagg gccaccctg cttttgtggc ggcaogatec
tttgtgcagg gcctgggtgt ggccagttag gtagtcogaa aggtggccca ggttcctctg
gccccagaat gttctcgggc tgtcatgaag ttggtctact gtgcccattg ccggggagtc
cctggtgccc ggccctgtcc cgactattgc cgaaatgtgc tcaaaggctg ccttgccaac
caggccgacc tggatgccga gtggagggaac ctcttggaact ccatggtgct catcaactgac
aagttctggg gcccgctcggg tgccggagaat gtcattggca gtgtgcataat gtggctggcg
gaggccatca acgccctcca ggacaacaag gacacactca cagctaaggt catccagggc
tgccgaaacc ccaaggtcaa tccccatggc tctgggcctg aggagaagcg tcgccgtggc
aaactggcac tgcaggagaa gtcctccaca ggtactctgg aaaagctggt ctctgaggcc
aaggcccagc tccgagacat tcaggactac tggatcagcc tcccaggggac actgtgtagt
gagaagatgg ccatgagtc tgcacgcgat gaccgctgct ggaatgggat ttccaagggc
cggtagctac ctgaggtgat gggtagtggg ctggccaacc agatcaacaa ccctgaagtg
gaggtggaca tcaccaagcc ggatatgacc atccggcagc agatcatgca gctcaagatc
atgaccaacc gtttacgtgg cgcctacggg ggcaatgatg tggacttcca ggatgccagt
gatgacggca gtggctccgg cagcgggtggc ggatgcccag atgacgcctg tggccggagg
gtcagcaaga agagctccag ctcccggacc cccttgaccc atgccctccc cggcttgtca
gaacaggagg gacagaagac ctgc [SEQ ID NO:6]

Protein sequence:

MELRARGWLLCAAAALVACARGDPASKSRSCSEVRQIYGAKGF
SLSDVPQAEISGEHLRIPCQGYTCCTSEMEENLANHSRMELETALHDSSRALQATLAT
QLHGIDDFQRLNDSERTLQDAFFGAFGDLYTQNTAFRDLYAELRLYYRGANLHLE
ETLAEFWARLLERLFKQLHPQLLLPDDYLDCLGKQAEALRPFGDAPRELRLRATRAV
AARSFVQGLGVASDVVRKVAQVPLAPECSRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLLDSMVLITDKFWGSPGAENVIGSVHMLAEAINALQDNKDT
LTAKVIQCGCNPKVNPHGSGPEEKRRRKGKALQEKSSSTGTLEKLVSEAKQLRDIQDY
WISLPGTLCSEKAMSPASDDRCWNGISKGRYLPVMDGLANQINNPEVEVDITKPD
MTIRQIMQLKIMTNRLRGAYGGNDVDFODASDDGSGSGGGCCDDACGRRVSKKSS
SSRTPLTHALPGLSEQEGQKTS [SEQ ID NO:7]

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack, E.D., Stipp, C.S., Kumbasar, A. and Lander, A.D.
TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,
in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Fig.7 : Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggagggtgc attgctggag gcctggtggg
cctcatcttt gctgtgtgcc tgggtggcttt catgctatac [SEQ ID NO:8]

Reference:

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 8 : Syndecan-2 (human) transmembrane domain (J 04621):

gtcctagcag ctgtcattgc tgggtggagtt attggctttc tctttgcaat ttttcttata
ctgctgttgg tg [SEQ ID NO:9]

protein sequence:
VLA AVIAGGVIGFLFAIFLILLV

[SEQ ID NO:10]

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and David,G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 9 : Synd-3 (N-Syndecan) chicken Transmembrane domain

gtgttgatagctgtgattgtcggcgggtgtggtgggagccctctttgctgccttccttgta
tgctgctcatctac [SEQ ID NO:11]

Reference:

ACCESSION M84910
LOCUS CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of
membrane-intercalated proteoglycans that is expressed in high
amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Figure 10 : Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtggggcggcg tagtgggcat cctcttcgcc gttttcctga
tcctgctgct ggtgtac [SEQ ID NO:12]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 11 : Glypican-1 (rat) GPI-Transmembrane Domain:

gccgcc actcgcccag agcctcacta cttctttctg
ctcttcctgt tcaccttggc ctttgctgca gccaggccca ggtggcggta actgccc
[SEQ ID NO:13]

protein sequence:

ATRPEPHYFLLFLFTLVLAARPRWR [SEQ ID NO:14]

Reference:

ACCESSION L34067

NID g506416

KEYWORDS glypican.

SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.

ORGANISM Rattus norvegicus

Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;

Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;

Murinae; Rattus.

REFERENCE 1 (bases 1 to 1737)

AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.

TITLE Neuronal expression of glypican, a cell-surface glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan, in the adult rat nervous system

JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Figure 12 : Perlecan (human) transmembrane domain #M85289

tcgcgacactgctcatcccag
ccatcacgactgctgacgccggcttctacctctgcgtggccaccagccctgcaggcactg
cc [SEQ ID NO:15]

Reference:

LOCUS HUMHSPG2B 14327 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.
ACCESSION M85289
NID g184426
KEYWORDS HSPG2 gene; heparan sulfate proteoglycan.
SOURCE Homo sapiens skin; colon cDNA to mRNA.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 14327)
AUTHORS Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W.,
Yi,H.F. and Iozzo,R.V.
TITLE Heparan sulfate proteoglycan of human colon: partial molecular
cloning, cellular expression, and mapping of the gene (HSPG2) to
the short arm of human chromosome 1
JOURNAL Genomics 10 (3), 673-680 (1991)
MEDLINE 91365376
REFERENCE 2 (bases 1 to 14327)
AUTHORS Murdoch,A.D., Dodge,G.R., Cohen,I., Tuan,R.S. and Iozzo,R.V.
TITLE Primary structure of the human heparan sulfate proteoglycan from
basement membrane (HSPG2/perlecan). A chimeric molecule with
multiple domains homologous to the low density lipoprotein
receptor, laminin, neural cell adhesion molecules, and epidermal
growth factor
JOURNAL J. Biol. Chem. 267 (12), 8544-8557 (1992)

Figure 13 : Syndecan-4 cytoplasmic domain from rat: M81786

Cgc atgaagaaga aggatgaagg cagttacgac ttgggcaaga aacccatcta caaaaaagcc
cccaccaacg agttctacgc atga [SEQ ID NO:16]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)